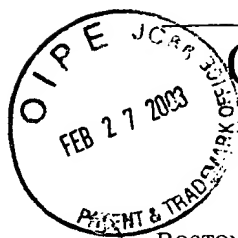


03-03-03



LAHIVE & COCKFIELD LLP

COUNSELLORS AT LAW
28 STATE STREET
BOSTON, MASSACHUSETTS 02109-1784
TELEPHONE (617) 227-7400
FAX (617) 742-4214
lc@lahive.com

JOHN A. LAHIVE, JR. (1928-1997)
THOMAS V. SMURZYNSKI
RALPH A. LOREN
GIULIO A. DeCONTI, JR.
ANN LAMPORT HAMMITTE
ELIZABETH A. HANLEY
AMY BAKER MANDRAGOURAS
ANTHONY A. LAURENTANO
KEVIN J. CANNING
JANE E. REMILLARD
DeANN FORAN SMITH
PETER C. LAURO
JEANNE M. DIGIORGIO
DEBRA J. MILASINCIC, Ph.D.
DAVID J. RIKKERS
DAVID R. BURNS
JOHN S. CURRAN
SEAN D. DETWEILER

CYNTHIA L. KANIK, Ph.D.
MEGAN E. WILLIAMS, Ph.D.
RICH A. NAND
LISA M. DIROCCO
HATHAWAY P. RUSSELL *
MARIA LACCOTRIPE ZACHARAKIS, Ph.D.
VINCENT P. LOCCISANO
MERIDETH C. ARNOLD
DANIELLE L. HERRITT
EUIHOON LEE **

SENIOR COUNSEL
JAMES E. COCKFIELD

OF COUNSEL
JEREMIAH LYNCH
WILLIAM A. SCOFIELD, JR.
SIBLEY P. REPPERT

PATENT AGENTS
THEODOR R. WEST
SHAYNE Y. FORT, Ph.D.

TECHNICAL SPECIALISTS
CYNTHIA M. SOROCKA
PETER W. DINI, Ph.D.
CATHERINE M. BISHOP
JACOB G. WEINTRAUB
JONATHAN M. SPARKS, Ph.D.
CRISTIN E. HOWLEY, Ph.D.
JILL ANN MELLO, Ph.D.

* Admitted in TX only
** Admitted in CT only

RECEIVED
MAR 03 2003
01/25/03

February 27, 2003

VIA EXPRESS MAIL

Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Patent Application No.: 09/945325
For: NOVEL AUTOINDUCER MOLECULES AND USES THEREFOR
Inventors: Pesci, Everett C. *et al.*
Filed: August 31, 2001
Our Ref. No.: UIZ-068CP

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449;
3. Copies of references cited in PTO Form 1449 (120);
4. A copy of the International Search Report; and
5. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

Certificate Under 37 CFR 1.10

Date of Deposit: February 27, 2003

Mailing Label Number: EV 244879084 US*

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on the date indicated above in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR 1.10 and addressed to the Commissioner for Patents, Washington, D.C. 20231.

Ilidio P. Cardoso

Name of Person Mailing Paper

Signature of Person Mailing Paper

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

Peter C. Lauro
Peter C. Lauro, Esq.

Reg. No. 32,360

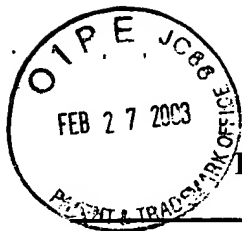
Attorney for Applicants

28 State Street

Boston, MA 02109

Telephone: (617) 227-7400

Facsimile: (617) 742-4214



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

MAR 06 2003

TECH CENTER 1600 12900

In re the application of: Pesci, Everett C. *et al.*

Serial No.: 09/945325

Filed: August 31, 2001

For: NOVEL AUTOINDUCER MOLECULES AND
USES THEREFOR

Attorney Docket No.: UIZ-068CP

Group Art Unit: 1625

Examiner: Huang, Evelyn Mei

VIA EXPRESS MAIL

Commissioner for Patents
Washington, D.C. 20231

Certificate Under 37 CFR 1.10

Date of Deposit: **February 27, 2003**

Mailing Label Number: **EV 244879084 US***

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on the date indicated above in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR 1.10 and addressed to the Commissioner for Patents, Washington, D.C. 20231.

Ilidio P. Cardoso

Name of Person Mailing Paper

Signature of Person Mailing Paper

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

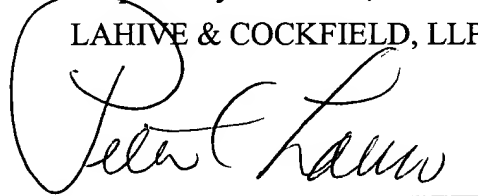
Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. Reference ID Nos. A6, A12, A14, A16, A17, A21, A22, A23, B2, B6, B10, B14, C2, C3, D7, D9, E1, E13, and F6 were cited in an International Search Report during the prosecution of PCT/US01/27165 which corresponds to the above referenced application. A copy of the report and each cited publication is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

In accordance with 37 CFR §1.97(d)(2) and §1.17(p), please charge the \$180.00 submission fee to our Deposit Order Account No. 12-0080. Please charge any necessary additional fees or credit any overpayments to our Deposit Order Account No. 12-0080.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

A handwritten signature in black ink, appearing to read "Peter C. Lauro", is written over a horizontal line.

Peter C. Lauro, Esq.

Registration No. 32,360

Attorney for Applicants

28 State Street
Boston, MA 02109
(617) 227-7400

Date: February 27, 2003

EAH/PCL/JGW/kvj
Enclosures

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO UIZ-068CP	SERIAL NO. 09/945325
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Pesci, Everett C. et al.	
		FILING DATE August 31, 2001	GROUP 1625

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,650,750	03/87	Giese	435	7	
	A2	4,709,016	11/87	Giese	530	389	
	A3	5,239,088	08/93	Hoffman et al.	549	321	
	A4	5,320,805	06/94	Kramer et al.	422	28	
	A5	5,536,750	06/96	deSolms et al.	514	538	
	A6	5,591,872	01/97	Pearson et al.	549	321	
	A7	5,593,827	01/97	Bycroft et al.	435	6	
	A8	5,686,472	11/97	Anthony et al.	514	357	
	A9	5,776,974	07/98	Bycroft et al.	514	445	
	A10	6,337,347	01/02	Livinghouse	514	471	

FOREIGN PATENT DOCUMENTS

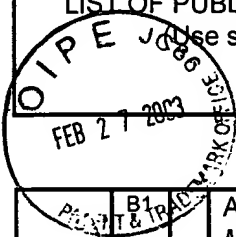
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	A11	JP 58096079	06/83	Japan			Abstract Only	
	A12	JP 59051267	03/84	Japan			Abstract Only	
	A13	JP 60045568	03/85	Japan			Abstract Only	
	A14	EP 0 177 764 A1	05/85	EPO				
	A15	WO 92/18614 A1	10/92	WO				
	A16	JP 07188208	07/95	Japan			Abstract Only	
	A17	WO 95/28929 A1	11/95	WO				
	A18	WO 96/29392 A1	09/96	WO				
	A19	WO 97/27851 A1	08/97	WO				
	A20	WO 98/57618 A1	12/98	WO				
	A21	JP 11029430	02/99	Japan			Abstract Only	
	A22	JP 11029307	02/99	Japan			Abstract Only	
	A23	WO 99/65889 A1	12/99	WO				

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

	A24	Allison, D.G. et al., "A staining technique for attached bacteria and its correlation to extracellular carbohydrate production", <i>J. Microbiol. Methods</i> , 2:93-99 (1984).
--	-----	---

Examiner	Date Considered
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO UIZ-068CP	SERIAL NO. 09/945323
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Pesci, Everett C. et al.	
		FILING DATE August 31, 2001	GROUP 1625



RECEIVED

MAR 06 2003

TECH CENTER 1600/290

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

B1	Allison, D.G. et al., "The role of exopolysaccharides in adhesion of freshwater bacteria", <i>J. Gen. Microbiol.</i> , 133:1319-1327 (1987).
B2	Ames, D.E. et al. "N-oxides of some hydroxy- and amino-quinolines," <i>Journal of the Chemical Society</i> , p.3079-3082 (1956).
B3	Anwar, H. et al., "Dynamic interactions of biofilms on mucoid <i>Pseudomonas aeruginosa</i> with tobramycin and piperacillin", <i>Antimicrob. Agents Chemother.</i> , 36:1208-1214 (1992).
B4	Bainton, N.J. et al., "A general role for the <i>lux</i> autoinducer in bacterial cell signalling: Control of antibiotic synthesis in <i>Erwinia</i> ", <i>Gene.</i> , 116:87-91 (1992).
B5	Bainton, N.J. et al., "N-(3-oxohexaonyl)-L-homoserine lactone regulates carbapenem antibiotic production in <i>Erwinia carotovora</i> ", <i>Biochem. J.</i> , 288:997-1004 (1992).
B6	Bayer, V. et al. "Synthese de F-Alkyl-2 chromones et mise en evidence de leurs intermediaires reactionnels," <i>Journal of Fluorine Chemistry</i> , 20:497-505 (1982). [French with English abstract.]
B7	Beck von Bodman, S. et al., "Capsular polysaccharide biosynthesis and pathogenicity in <i>Erwinia carotovora</i> require induction by an N-acylhomoserine lactone autoinducer", <i>J. Bacteriol.</i> , 177:5000-5008 (1995).
B8	Bever, et al., "Molecular Characterization and Nucleotide Sequence of the <i>Pseudomonas aeruginosa</i> Elastase Structural Gene," <i>Journal of Bacteriology</i> , 1988, vol. 170, No. 9, 4309-4314.
B9	Boivin, J. et al., "Biodeterioration of Materials" In <i>Biodeterioration and biodegradation 8</i> (ed.) H.W. Rossmore, Elsevier Applied Science, London, pp. 53-62 (1991).
B10	Bonini, B.F. et al. "Synthesis and properties of a new family of chiral mesogens containing the 2,3-dihydrobenzopyran nucleus," <i>J. Organ. Chem.</i> , 59:5930-5936 (1994).
B11	Boyd, A. et al., "Sequence of the <i>algL</i> gene of <i>Pseudomonas aeruginosa</i> and purification of its alginate lyase product", <i>Gene</i> , 131:1-8 (1993).
B12	Boyd, A. et al., "Role of alginate lyase in cell detachment of <i>Pseudomonas aeruginosa</i> ", <i>Appl. Environ. Microbiol.</i> , 60:2355-2359 (1994).
B13	Brint, J.M. et al., "Synthesis of multiple exoproducts in <i>Pseudomonas aeruginosa</i> is under the control of RH1R-Rh1I. Another set of regulators in strain PAO1 with homology to the autoinducer-responsive LuxR-LuxI family", <i>J. Bacteriol.</i> , 177:7155-7163 (1995).
B14	Budzikiewicz, H. et al. "Bakterieninhaltsstoffe, V ¹ : alkylcholine und deren N-Oxide aus <i>Pseudomonas aeruginosa</i> ," <i>Monatshefte für Chemie</i> , 110:947-953 (1979). [German with English abstract.]
B15	Cao, J-G. et al., "Purification and Structural Identification of an Autoinducer for the Luminescence System of <i>Vibrio harveyi</i> " <i>Journal of Biological Chemistry</i> , 1989, vol. 264, No. 36, pp. 21670-21676
B16	Cao, J-G. et al. "Biosynthesis and Stereochemistry of the Autoinducer Controlling Luminescence in <i>Vibrio harveyi</i> ," <i>Journal of Bacteriology</i> , 1993, vol. 175, No. 12, 3856-3862.
B17	Chapon-Hervé, C. et al. "Regulation of the <i>xcp</i> secretion pathway by multiple quorum-sensing modulons in <i>Pseudomonas aeruginosa</i> ", <i>Molecular Microbiology</i> 24(6):1169-78 (1997).
B18	Choi, S.H. et al., "Genetic Dissection of DNA Binding and Luminescence Gene Activation by the <i>Vibrio fischeri</i> LuxR Protein," <i>Journal of Bacteriology</i> , 1992, vol. 174, No. 12, 4064-4069.
B19	Christensen, B.E. et al., "Physical and chemical properties of biofilms", In: Characklis, W.G. et al (eds.) <i>Biofilms</i> . John Wiley & Sons, New York, pp. 93-130 (1990).

Examiner	Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

APPLICANT FACSIMILE OF FORM PTO-1449

REV 7-80

U.S. DEPARTMENT OF
COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO

UIZ-068CP

SERIAL NO.

09/945325

LIST OF PUBLICATIONS CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Pesci, Everett C. *et al.*

FILING DATE

August 31, 2001

GROUP

1625

TECH CENTER 1600/2900

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

C1	Cohen-Bazire, G. <i>et al.</i> , "Kinetic studies of pigment synthesis by non-sulfur purple bacteria", <i>J. Cell. Comp. Physiol.</i> , 49:25-68 (1957).
C2	Coppola, G.M. "The chemistry of 2H-3,1-benzoxazine-2,4(1H)-dione (isatoic anhydride). 17[1]. Synthesis of 2-Alkyl-4-quinolone alkaloids via a one-step reaction of N-methylisatoic anhydride with methyl ketone enolates," <i>Journal of Heterocyclic Chemistry</i> 22(3):491-494 (1985).
C3	Cornforth, J.W. <i>et al.</i> "Structure of a naturally occurring antagonist of dihydrostreptomycin", <i>The Biochemical Journal</i> , 63:124-130 (1956).
C4	Costerton, J.W. <i>et al.</i> , "Bacterial biofilms in nature and disease", <i>Ann. Rev. Microbiol.</i> , 41:435-464 (1987).
C5	Davies, D.G. <i>et al.</i> , "Exopolysaccharide production in biofilms: Substratum activation of alginate gene expression by <i>Pseudomonas aeruginosa</i> ", <i>Appl. Environ. Microbiol.</i> , 59:1181-1186 (1993).
C6	Davies, D.G. <i>et al.</i> , "Regulation of the alginate biosynthesis gene <i>algC</i> in <i>Pseudomonas aeruginosa</i> during biofilm development in continuous culture", <i>Appl. Environ. Microbiol.</i> , 61:860-867 (1995).
C7	DeKievit, T.R. <i>et al.</i> , "Quorum sensing, gene expression and <i>Pseudomonas</i> biofilms", <i>Methods in Enzymology</i> 310:117-128 (Sep 1999).
C8	Dempsey, M.J., "Marine bacterial fouling: A scanning electron microscope study", <i>Marine Biol.</i> , 61:305-315 (1981).
C9	Eberhard, A. <i>et al.</i> , "Structural identification of autoinducer of photobacterium fischeri luciferase", <i>Biochemistry</i> , 20:2444-2449 (1981).
C10	Eberhard, A. <i>et al.</i> , "Analogues of the autoinducer of bioluminescence in vibrio fischeri", <i>Arch. Microbiol.</i> , 146:35-40 (1986).
C11	Eberhard, <i>et al.</i> , "Synthesis of the <i>lux</i> gene autoinducer in <i>Vibrio fischeri</i> is positively autoregulated," <i>Archives of Microbiology</i> , 1991, vol. 155, 294-297.
C12	EMBL accession no. AF004504 for " <i>Pseudomonas aeruginosa</i> pyocyanine biosynthesis operon, complete sequence (4 Jul 1997).
C13	Finlay, B.B. <i>et al.</i> , "Common themes in microbial pathogenicity", <i>Microbiol. Rev.</i> , 53:210-230 (1989).
C14	Fletcher, M. "Adherence of marine micro-organisms to smooth surfaces", pp. 347-374. In Beachey, E.H. (ed.), <i>Bacterial Adherence (receptors and recognition, series 3 vol. 6.)</i> Chapman & Hall, London (1980).
C15	Floodgate, G.D. "The mechanism of bacterial attachment to detritus in aquatic systems", <i>Memorie dell'Istituto Italiano di idrobiologica Dott. Carco di Marchi</i> 29 (suppl.), 311-323 (1972).
C16	Fuqua, W.C. <i>et al.</i> "Quorum sensing in bacteria: The luxR-luxI family of cell density-responsive transcriptional regulators", <i>J. Bacteriol.</i> , 176:269-275 (1994).

Examiner

Date Considered

*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



UIZ-068CP

09/945325

LIST OF PUBLICATIONS CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Pesci, Everett C. et al.

FILING DATE

August 31, 2001

GROUP

1625

Sheet 4 of 8

RECEIVED

MAR 06 2003

TECH CENTER 1600/2900

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

D1	Gacesa, P., "Alginate-modifying-enzymes. A proposed unified mechanism of action for the lyases and epimerases", <i>FEBS Lett.</i> , 212:199-202 (1987).
D2	Gambello, M.J. et al., "Cloning and Characterization of the <i>Pseudomonas aeruginosa lasR</i> Gene, a Transcriptional Activator of Elastase Expression," <i>Journal of Bacteriology</i> , 1991, vol. 173, No. 9, 3000-3009.
D3	Gambello, M.J. et al., "LasR of <i>Pseudomonas aeruginosa</i> is a transcriptional activator of the alkaline protease gene (<i>apr</i>) and an enhancer of exotoxin A expression", <i>Infect. Immun.</i> , 61:1180-1184 (1993).
D4	Geesey, G.G. et al., "Microscopic examination of natural sessile bacterial populations from an alpine stream", <i>Can. J. Microbiol.</i> , 23:1733-1736 (1997).
D5	Givskov, M. et al., "Eukaryotic interference with homoserine lactone-mediated prokaryotic signalling", <i>J. Bacteriol.</i> , 178:6618-6622 (1996).
D6	Goswami, A. et al., "Microbial Hydroxylation of Quadron to 8a-Hydroxyquadron," <i>Journal of Natural Products</i> , 1987, vol. 50, No. 1, 49-54.
D7	Guilhon, G.M.S.P. et al., "2-alkyl-4-quinolone alkaloids and cinnamic acid derivatives from <i>Esenbeckia almawillia</i> " <i>Phytochemistry</i> , 37(4):1193-1995.
D8	Hengge-Aronis, R., "Survival of hunger and stress: The role of <i>rpoS</i> in early stationary phase regulation in <i>E. coli</i> ", <i>Cell</i> , 72:165-168 (1993).
D9	Hirao, I. et al. "A convenient synthesis of 2- and 2,3-substituted 4H-chromen-4-ones," <i>Synthesis</i> , 22:1076-178.
D10	Høiby, N. "Pseudomonas Aeruginosa Infection in Cystic Fibrosis," <i>Acta. Path. Microbiol. Scand. Sect. B.</i> , 1974, vol. 82, 551-558.
D11	Holloway, B.W., "Genetic recombination in <i>Pseudomonas aeruginosa</i> ", <i>J. Gen. Microbiol.</i> , 13:572-581 (1955).
D12	Iglewski, B.H. et al., "NAD-Dependent Inhibition of Protein Synthesis by <i>Pseudomonas aeruginosa</i> Toxin," <i>PNAS</i> , 1975, vol. 72, 2284-2288.
D13	Iglewski, B.H. et al., "Pseudomonas aeruginosa exoenzyme S: An adenosine diphosphate ribosyltransferase distinct from toxin A," <i>PNAS</i> 1978, vol. 75, No. 7, 3211-3215.
D14	Jones, H.C. et al., "Electron microscopic study of a slime layer", <i>J. Bacteriol.</i> , 99:316-325 (1969).
D15	Jones, S. et al., "The <i>lux</i> autoinducer regulates the production of exoenzyme virulence in <i>Erwinia carotovora</i> and <i>Pseudomonas aeruginosa</i> ," <i>EMBO Journal</i> , 1993, vol. 12, No. 6, 2477-2482.
D16	Kaplan, H.B. et al., "Diffusion of autoinducer is involved in regulation of the <i>Vibrio fischeri</i> luminescence system", <i>J. Bacteriol.</i> , 163:1210-1214 (1985).
D17	Kessler, E. et al., "Synthesis, Processing and Transport of <i>Pseudomonas aeruginosa</i> Elastase," <i>Journal of Bacteriology</i> , 1988, vol. 170, No. 11, 5241-5247.
D18	Khoury, A.E. et al., "Prevention and control of bacterial infections associated with medical devices", <i>ASAIO J.</i> , 38:M174-M178 (1992).
D19	Kintner, P.K. III, et al., "Carbohydrate interference and its correction in pectin analysis using the m-hydroxydiphenyl method", <i>J. Food Sci.</i> , 47:756-760 (1982).

Examiner

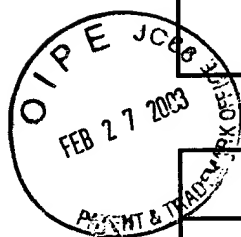
Date Considered

*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO UIZ-068CP	SERIAL NO. 09/945325
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Pesci, Everett C. et al.	GROUP 1625
		FILING DATE August 31, 2001	

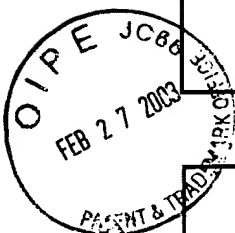
RECEIVED
MAR 06 2003
TECH CENTER 1600/2900



OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

E1	Kostova, I. et al. "Alkaloids and coumarins from <i>Ruta graveolens</i> ", <i>Monatshefte für Chemie</i> , 130(5):703-707 (1999).
E2	Latifi, A. et al., "Multiple homologues of LuxR and LuxI control expression of virulence determinants and secondary metabolites through quorum sensing in <i>Pseudomonas aeruginosa</i> PAO1", <i>Mol. Microbiol.</i> , 17:333-343 (1995).
E3	Latifi, A. et al., "A hierarchical quorum sensing cascade in <i>Pseudomonas aeruginosa</i> links the transcriptional activators lasR and RhIR (VsmR) to expression of the stationary-phase sigma factor RpoS", <i>Mol. Microbiol.</i> , 21:1137-1146 (1996).
E4	Meighen, E.A. "Molecular Biology of Bacterial Bioluminescence," <i>Microbiological Reviews</i> , 1991, vol. 55, No. 1, 123-142.
E5	Nicas, T.I. et al., "The contribution of exoproducts to virulence of <i>Pseudomonas aeruginosa</i> ," <i>Canadian Journal of Microbiology</i> , 1985, vol. 31, No. 4, 387-392.
E6	Nichols, W.W. et al., "The penetration of antibiotics into aggregates of mucoid and non-mucoid <i>Pseudomonas aeruginosa</i> ", <i>J. Gen. Microbiol.</i> , 135:1291-1303 (1989).
E7	Ochsner, U.A., et al., "Autoinducer-mediated regulation of rhamnolipid biosurfactant synthesis in <i>Pseudomonas aeruginosa</i> ", <i>PNAS USA</i> , 92:6424-6428 (1995).
E8	Passador, L. et al., "Expression of <i>Pseudomonas aeruginosa</i> Virulence Genes Requires Cell-to-Cell Communication," <i>Science</i> , 1993, vol. 260, 1127-1129.
E9	Passador, L. et al., "Functional analysis of the <i>Pseudomonas aeruginosa</i> autoinducer PAI", <i>J. Bacteriology</i> , 1996, 5995-6000.
E10	Pearson, J.P. et al., "Structure of the autoinducer required for expression of <i>Pseudomonas aeruginosa</i> virulence genes," <i>PNAS USA</i> , 1994, vol. 91, No. 1, 197-201.
E11	Pearson, J.P. et al., "Roles of <i>Pseudomonas aeruginosa</i> las and rhl quorum-sensing systems in control of elastase and rhamnolipid biosynthesis genes" <i>Journal of Bacteriology</i> 179(18):5756-5767 (Sep 1997).
E12	Pesci, E.C. et al. "Regulation of las and rhl quorum sensing in <i>Pseudomonas aeruginosa</i> ", <i>Journal of Bacteriology</i> 179(10):3127-32 (May 1997).
E13	Pesci, E.C. et al. "Quinolone signaling in the cell-to-cell communication system of <i>Pseudomonas aeruginosa</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 96:11229-11234 (1999).
E14	Peterson, G.L., "A simplification of the protein assay method of Lowry et al. which is more generally applicable", <i>Anal. Biochem.</i> , 83:346-356 (1997).
E15	Pierson, L.S. et al., "Phenazine antibiotic biosynthesis in <i>Pseudomonas aureofaciens</i> 30-84 is regulated by PhzR in response to cell density", <i>Journal of Bacteriology</i> 176(13):3966-74 (July 1994).
E16	Piper, K.R. et al., "Conjugation factor of <i>Agrobacterium tumefaciens</i> regulates Ti plasmid transfer by autoinduction," <i>Nature</i> , 1993, vol. 362, 448-450.
E17	Pirhonen, et al., "A small diffusible signal molecule is responsible for the global control of virulence and exoenzyme production in the plant pathogen <i>Erwinia carotovora</i> ," <i>EMBO Journal</i> , 1993, vol. 12, No. 6, 2467-2476.

Examiner	Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	



RECEIVED
Sheet 6 of 8
MAR 06 2003
FBI CENTER 1600/2900

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO UIZ-068CP	SERIAL NO. 09/945325
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Pesci, Everett C. et al.	1625
		FILING DATE August 31, 2001	

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

F1	Preiss, J. et al., "Alginic acid metabolism in bacteria. I. enzymatic formation of unsaturated oligosaccharides and 4-deoxy-L-erythro-5-hexoseulose uronic acid", <i>J. Biol. Chem.</i> , 237:309-316 (1962).
F2	Ralling, G. et al., "Growth rate-dependent regulation of RNA polymerase synthesis in <i>Escherichia coli</i> ," <i>Mol. Gen. Genet.</i> , 1985, vol. 201, 379-386.
F3	Reimmann, C. et al., "The global activator GacA of <i>Pseudomonas aeruginosa</i> PAO positively controls the production of the autoinducer N-butyryl-homoserine lactone and the formation of the virulence factors pyocyanin, cyanide, and lipase", <i>Mol. Microbiol.</i> 1997 vol. 24 No. 2, 309-319.
F4	Reynolds, H.Y. et al., " <i>Pseudomonas aeruginosa</i> Infections: Persisting Problems and Current Research to Find New Therapies," <i>Annals of Internal Medicine</i> , 1975, vol. 82, No. 6, 819-831.
F5	Robson, N.D. et al., "Bacterial N-acyl-homoserine-lactone-dependent signalling and its potential biotechnological applications", <i>Trends in Biotechnol.</i> 1997, vol. 15, 458-464.
F6	Somanthan, R. et al. "Synthesis of some 2-Alkyl-4-quinolone and 2-Alkyl-4-methoxyquinoline alkaloids," <i>Journal of Heterocyclic Chemistry</i> , 18:1077-1079.
F7	Schiller, N.L. et al., "Characterization of the <i>Pseudomonas aeruginosa</i> alginate lyase gene (<i>algL</i>): cloning, sequencing and expression in <i>Escherichia coli</i> ", <i>J. Bacteriol.</i> 175:4780-4789 (19930).
F8	Schripsema, J. et al., "Bacteriocin <i>small</i> of <i>Rhizobium leguminosarum</i> belongs to the class of N-acyl-L-homoserine Lactone molecules, known as autoinducers and as quorum sensing co-transcription factors", <i>J. Bacteriol.</i> 178:366-371 (1996).
F9	Srinivasan, R. et al., "Biofilm parameters influencing biocide efficacy", <i>Biotech. Bioeng.</i> 46:553-560 (1995).
F10	Stewart, G.S.A.B. et al., "Shedding New Light On Food Microbiology," <i>ASM News</i> , 1993, vol. 59, No. 5, 241-246.
F11	Stewart, P.S., "Biofilm accumulation model that predicts antibiotic resistance of <i>Pseudomonas aeruginosa</i> biofilms", <i>Antimicrob. Agents Chemother.</i> 38:1052-1058 (1994).
F12	Sutherland, I.W. "Polysaccharides in the adhesion of marine and freshwater bacteria," pp. 329-338 In R.C. W. Berkeley, et al. (eds.), <i>Microbial Adhesion to Surfaces</i> . Ellis Horwood, London (1980).
F13	Swift, S. et al., "A novel strategy for the isolation of <i>luxI</i> homologues: evidence for the widespread distribution of a LuxR:Lux1 superfamily in enteric bacteria", <i>Mol. Microbiol.</i> 10:511-520 (1993).
F14	Tashiro, H. et al., "Penetration of biocides into biofilm", <i>Wat. Sci. Technol.</i> 23:1395-1403 (1991).
F15	Throup, J. et al., "Characterization of the <i>yenI/yenR</i> locus from <i>Yersinia enterocolitica</i> mediating the synthesis of two N-acylhomoserine lactone signal molecules", <i>Mol. Microbio.</i> , 17:345-356 (1995).
F16	Wallace, W.H. et al., "An <i>algD</i> -Bioluminescent reporter plasmid to monitor alginate production in biofilms", <i>Microb. Ecol.</i> 27:225-239 (1994).
F17	Wardell, J.N. et al., "Microbes and surfaces" <i>Symposia for the Society for General Microbiology.</i> 34:351-378 (1983).

Examiner	Date Considered
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

UIZ-068CP

09/945325

LIST OF PUBLICATIONS CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Pesci, Everett C. et al.

FILING DATE

August 31, 2001

GROUP

1625

TECH CENTER 1600/2900

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

[illegible]

Examiner	Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

TECH CENTER 1600/2900



EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	H1	09/319580		Davies <i>et al.</i>			07/99
	H2	09/969501		Livinghouse			10/01

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	H3	WO 01/18248 A2,A3	03/01	WO				

[illegible]

Examiner	Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	